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1 [NSF workshop on industrial/academic cooperation in database systems](#)

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Full text available: pdf(1.96 MB)

Additional Information: [full citation](#), [index terms](#)

2 [Session 2: secure Web services: Designing a distributed access control processor for networked Web](#)

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(301.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of networked programmable and machine accessible Web. The vision of many, and might represent a step toward a Web. However, security is a crucial requirement for the serious usage and adoption of the Web services. This paper enumerates design goals for an access control model for Web services. It then introduces a general model for Web services components, along ...

Keywords: Web services, XML, access control, security

3 [Metadata for digital libraries: architecture and design rationale](#)

Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available: pdf(1.65 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CORBA, InfoBus, attribute model translation, attribute model translation, digital library interoperability, metadata architecture, metadata repository, proxy architecture

4 [Mining and disambiguating names: Two supervised learning approaches for name disambiguation](#)

Hui Han, Lee Giles, Hongyuan Zha, Cheng Li, Kostas Tsioutsoulis

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available:  pdf(143.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to name abbreviations, identical names, name misspellings, and pseudonyms in publications (citations), an author may have multiple names and multiple authors may share the same name. This ambiguity affects the performance of document retrieval, web search, database integration, and attribution to authors. This paper investigates two supervised learning approaches to disambiguate citations. One approach uses the naive Bayes probability model ...

Keywords: naive bayes, name disambiguation, support vector machine

5 XML data modeling and storage: A temporal data model and management system for normative format

Fabio Grandi, Federica Mandreoli, Paolo Tiberio, Marco Bergonzini

November 2003 **Proceedings of the 5th ACM international workshop on Web information and**

Full text available:  pdf(189.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we present the results of an on-going research activity concerning the temporal management of normative texts in XML format. In particular, four temporal dimensions (publication, validity, effectiveness, times) are used to correctly represent the evolution of norms in time and their resulting versioning. We introduce a multiversion data model based on XML schema and define basic mechanisms for the management of these texts. Finally, we describe a prototype management system ...

Keywords: legal information systems, temporal XML

6 TourisT: the application of a description logic based semantic hypermedia system for tourism

Joe Bullock, Carole Goble

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Full text available:  pdf(1.57 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Digital preservation: Preservation functionality in a digital archive

Erik Oltmans, Raymond van Diessen, Hilde van Wijngaarden

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available:  pdf(359.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Early in 2003 the digital archiving system of the National Library of the Netherlands (KB) was taken over by the e-Depot system. The system is called the e-Depot and its technical heart is the IBM system called Digital Information Architecture (DIAS). The e-Depot is built according to the recommendations in the OAIS reference model and provides long-term storage of and access to large quantities of digital publications. To control safe storage and future rendering of the digital objects ...

Keywords: digital preservation, electronic deposit, permanent access, technical metadata

8 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11, Number 4

Full text available:  pdf(351.86 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise information systems. This paper describes an XML query engine for network-bound data. The engine is designed to be efficient and scalable, and to support a wide range of XML queries. It is implemented as a plug-in to the PostgreSQL database system. The engine is currently being used in a number of research projects and in a commercial setting.

Nearly all data providers are adding XML import or export capabilities, and standard XML Schema promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose data across the wide area are also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

9 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  pdf(483.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

After more than 20 years of research and practice in software configuration management (SCM), consistent configurations of versioned software products still remains a challenge. This article focuses on models underlying both commercial systems and research prototypes. It provides an overview of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we focus on ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

10 Virtual machine monitors: Terra: a virtual machine-based platform for trusted computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  pdf(140.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run with normal applications on a general-purpose computing platform. Terra achieves this synthesis through a *virtual machine monitor* (VMM) ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine

11 Web site analysis and customization: Practical semantic analysis of web sites and documents

Thierry Despeyroux

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(90.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Web sites are now ordinary products, it is necessary to explicitly the notion of quality of a Web site may be linked to the easiness of accessibility and also to other criteria such as the fact that they are consistent and coherent. This last quality is difficult to insure because sites may be updated very frequently, and authors may be partially generated and in this context proof-reading is very difficult. The same problem may be found in different ...

Keywords: XML, consistency, content management, formal semantics, information system, knowledge programming, quality, web engineering, web site evolution, web sites

12 Database and digital library technologies: A method for the dynamic generation of virtual versioned documents

Mercedes Martínez, Jean-Claude Derniame, Pablo de la Fuente

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(590.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document evolution is usually performed by creating a new document which explicitly details changes to paragraphs inside other document content. Obtaining (virtual) document versions corresponding to a specific date is left to document users, who manually extract from library collections, and compose documents needed to obtain the desired version. But this can be a very tedious and difficult task when changes are proposed as a solution to dynamical ...

Keywords: XLink, document evolution, document relationships, dynamic virtual version generation, documents

13 [A prototype implementation of archival Intermemory](#)

Yuan Chen, Jan Edler, Andrew Goldberg, Allan Gottlieb, Sumeet Sobti, Peter Yianilos

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available:  pdf(287.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Internet, archival storage, digital libraries, distributed algorithms, distributed redundancy, electronic publishing, erasure-resilient codes, information, self-maintenance

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